

WHAT IS CLAIMED IS:

- 1 1. A method for manufacturing an electro-optic modulator structure
2 comprising:
 - 3 providing a glass substrate;
 - 4 placing a collar fixture around on the glass substrate to regularize its surface;
 - 5 spin coating a sensor material onto the collared structure with controlled
6 evaporation to obtain a coated substrate;
 - 7 cleaning the edges of the coated substrate of excess emulsion;
 - 8 spin coating an adhesive layer onto the sensor material of the coated substrate
9 to obtain an adhesive coated substrate; and
 - 10 laminating a pellicle into the adhesive coated substrate.
- 1 2. The method according to claim 1 wherein the sensor material is PDLC.
- 1 3. The method according to claim 1 wherein the sensor material is a
2 solvent-based PDLC.
- 1 4. The method according to claim 1 wherein the spinner bowel is at least
2 partially sealed.
- 1 5. The method according to claim 1 wherein the evaporation is controlled
2 by spin speed, ambient pressure and distance between substrate and flat spin coater cover.
- 1 6. The method according to claim 1 wherein the sensor material is a
2 water-based emulsion.
- 1 7. The method according to claim 1 wherein accelerated evaporation time
2 is between about 2 minutes and 8 minutes for a 5 ml deposition.